FIG. 1

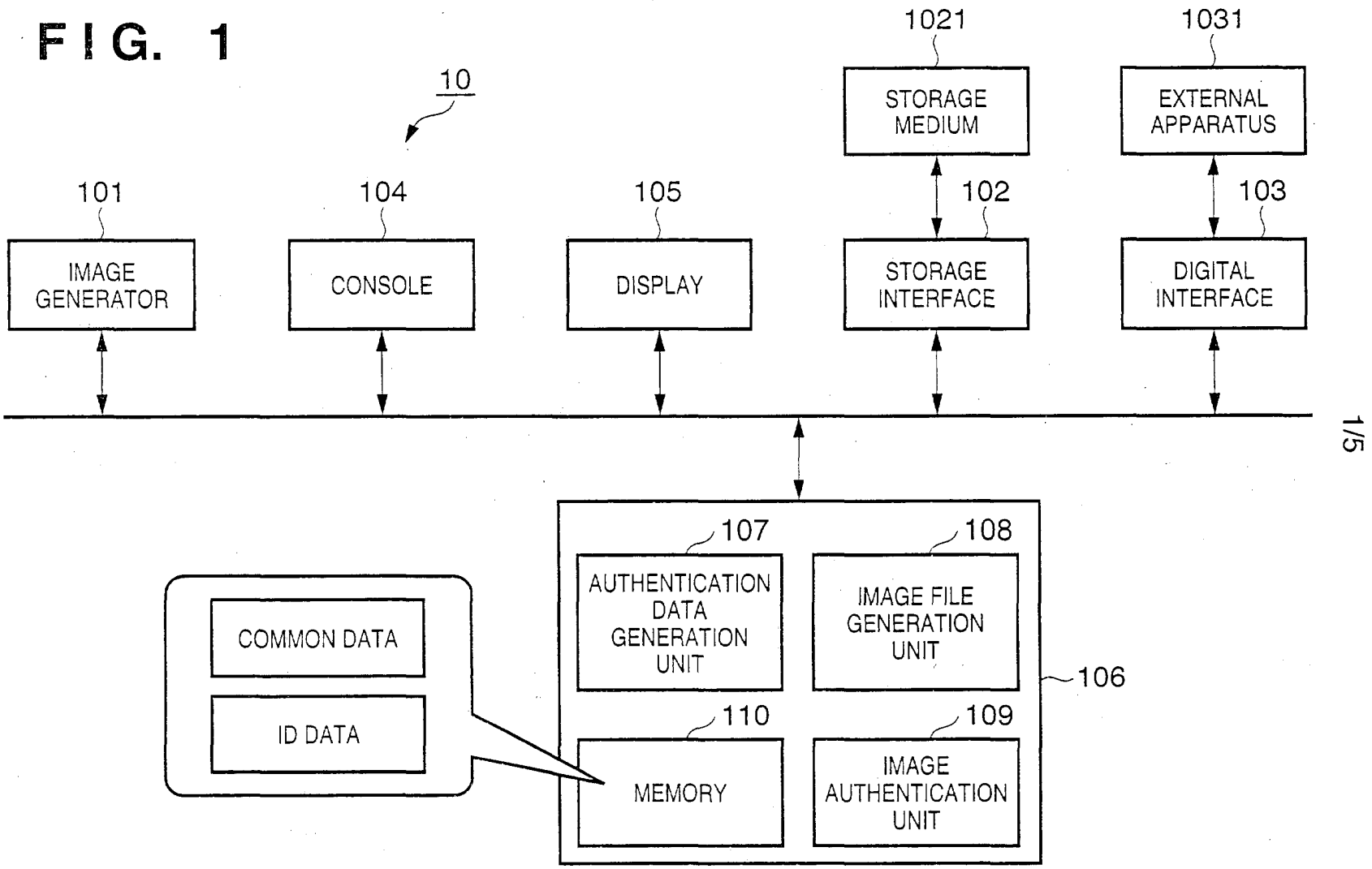

10
1021
1031
STORAGE MEDIUM
EXTERNAL APPARATUS
101
104
105
102
103
IMAGE GENERATOR
CONSOLE
DISPLAY
STORAGE INTERFACE
DIGITAL INTERFACE
107
108
AUTHENTICATION DATA GENERATION UNIT
IMAGE FILE GENERATION UNIT
106
COMMON DATA
ID DATA
110
109
MEMORY
IMAGE AUTHENTICATION UNIT

FIG. 2

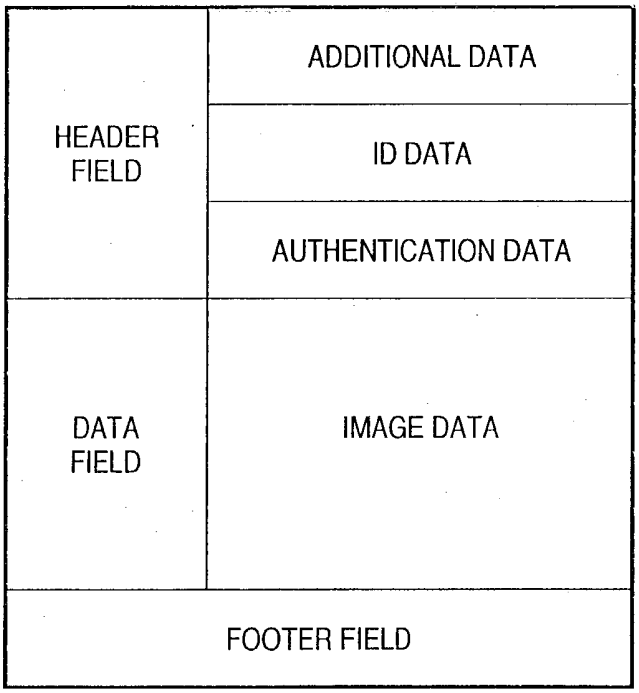

HEADER FIELD
ADDITIONAL DATA
ID DATA
AUTHENTICATION DATA
DATA FIELD
IMAGE DATA
FOOTER FIELD

FIG. 3

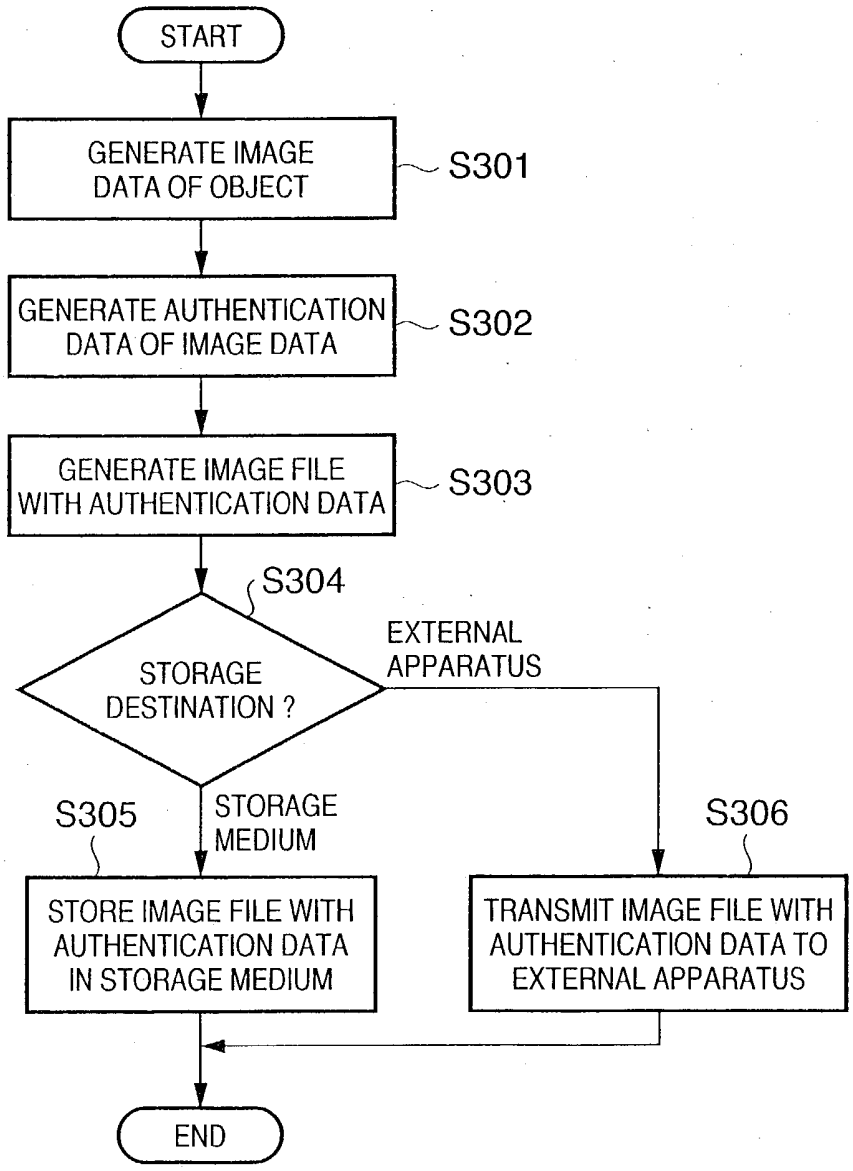

START
GENERATE IMAGE DATA OF OBJECT
S301
GENERATE AUTHENTICATION DATA OF IMAGE DATA
S302
GENERATE IMAGE FILE WITH AUTHENTICATION DATA
S303
S304
STORAGE DESTINATION ?
EXTERNAL APPARATUS
S305
STORAGE MEDIUM
S306
STORE IMAGE FILE WITH AUTHENTICATION DATA IN STORAGE MEDIUM
TRANSMIT IMAGE FILE WITH AUTHENTICATION DATA TO EXTERNAL APPARATUS
END

FIG. 4

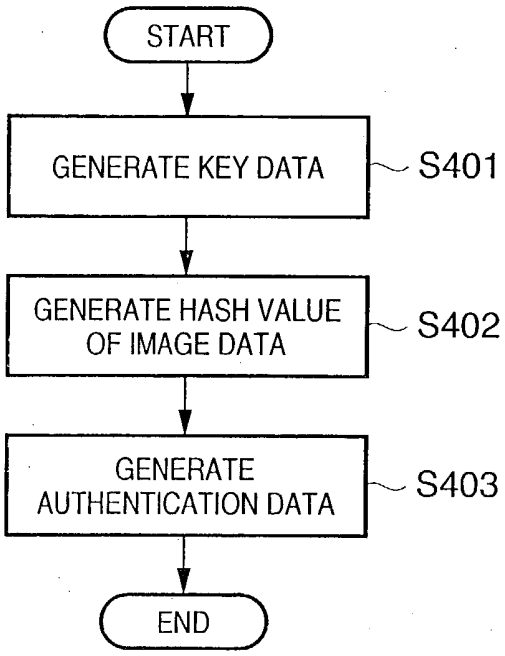
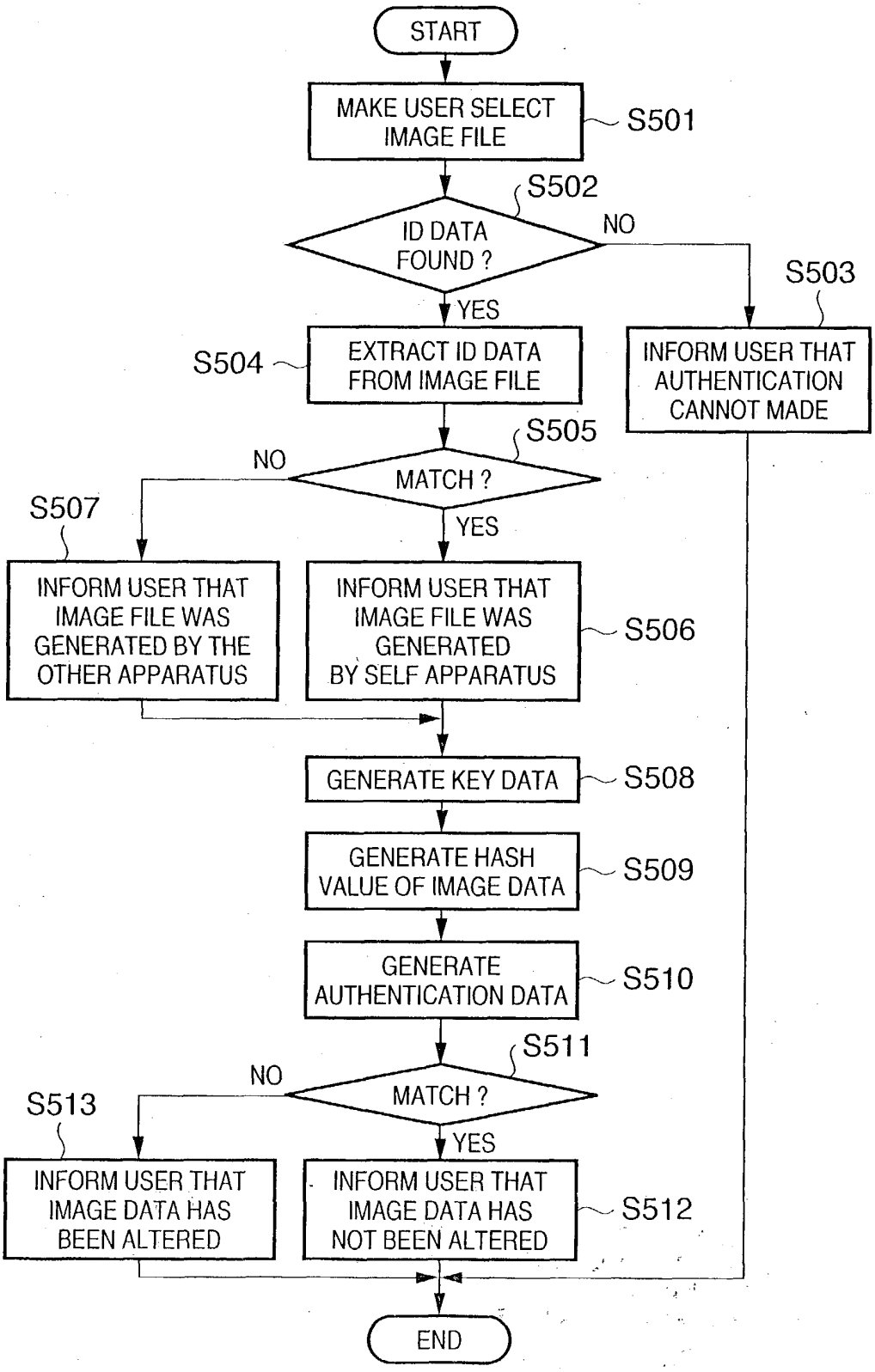

START
GENERATE KEY DATA
S401
GENERATE HASH VALUE OF IMAGE DATA
S402
GENERATE AUTHENTICATION DATA
S403
END

FIG. 5


START
MAKE USER SELECT IMAGE FILE
S501
S502
ID DATA FOUND ?
NO
YES
S503
INFORM USER THAT AUTHENTICATION CANNOT MADE
S504
EXTRACT ID DATA FROM IMAGE FILE
S505
MATCH ?
NO
YES
S507
INFORM USER THAT IMAGE FILE WAS GENERATED BY THE OTHER APPARATUS
INFORM USER THAT IMAGE FILE WAS GENERATED BY SELF APPARATUS
S506
GENERATE KEY DATA
S508
GENERATE HASH VALUE OF IMAGE DATA
S509
GENERATE AUTHENTICATION DATA
S510
S511
MATCH ?
NO
YES
S513
INFORM USER THAT IMAGE DATA HAS BEEN ALTERED
INFORM USER THAT IMAGE DATA HAS NOT BEEN ALTERED
S512
END